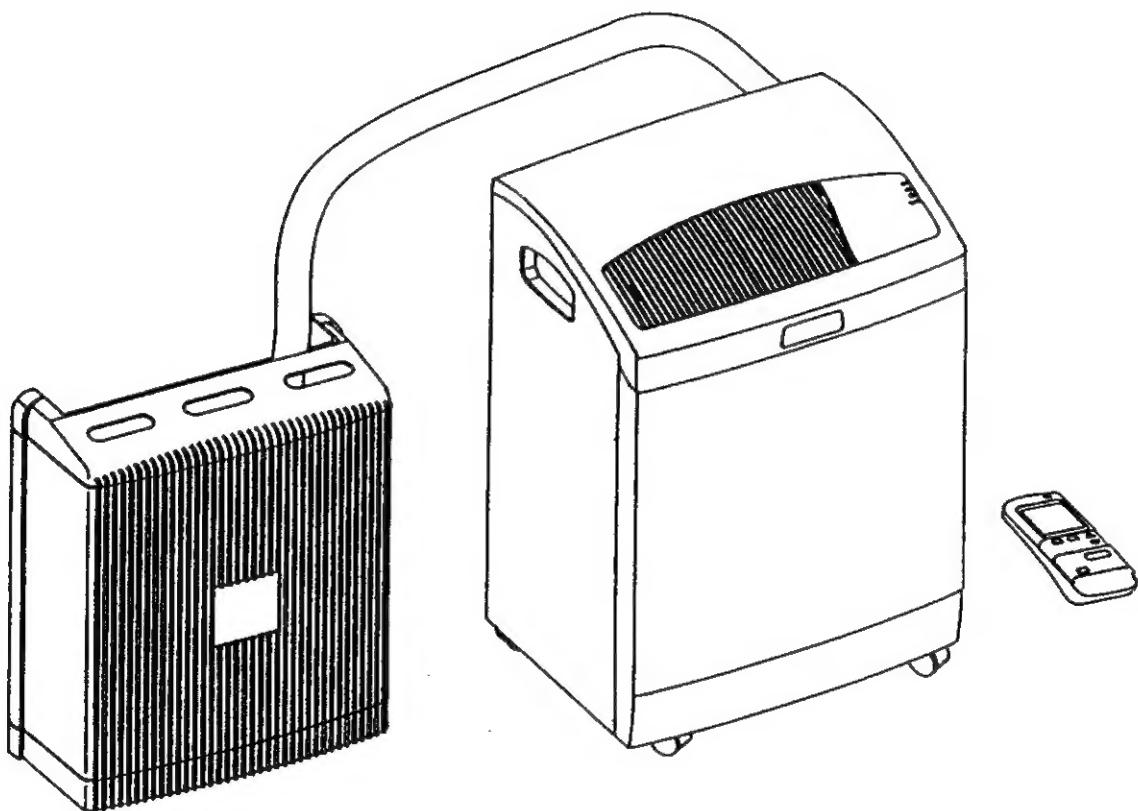


*English*

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# **MOBILE SPLIT AIR CONDITIONER**

## **ELECTRONIC**



**INSTALLATION AND OPERATING INSTRUCTIONS**

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## INTRODUCTION

This new split mobile air conditioner consists of an indoor and outdoor unit, interconnected by a flexible hose. The indoor unit is equipped with four castors for easy mobility.

The air conditioner you have purchased is factory-charged and ready for use. No special installation is required; just follow the simple instructions and enjoy this fully featured, versatile air conditioner.

The electronic model gives the user the choice of local or remote control operation, precise temperature setting and control, timer operation and a built-in protection system for trouble-free and energy-efficient operation.

### **PLEASE READ THESE INSTRUCTIONS BEFORE OPERATING THE AIR CONDITIONER**

#### **WARNING:**

- This air conditioner must be grounded to protect against electrical shocks.
- Electrical connections and power cord replacement should be done only by an authorized electrician and in accordance with electrical regulations and local codes.
- Do not expose the indoor unit to rain.

#### **IMPORTANT NOTES:**

When using this air conditioner for the first time, please do the following:

1. Read the instruction manual and familiarize yourself with the controls.
2. Plug the electric cord into a power socket, protected by the proper fuse.
3. Check that all control functions operate properly, using the remote controller.
4. Repeat step 3 when the remote control unit is in its compartment.
5. Disconnect the electrical cord from the power socket, wait 3 minutes and reconnect the unit.

## TECHNICAL SPECIFICATIONS

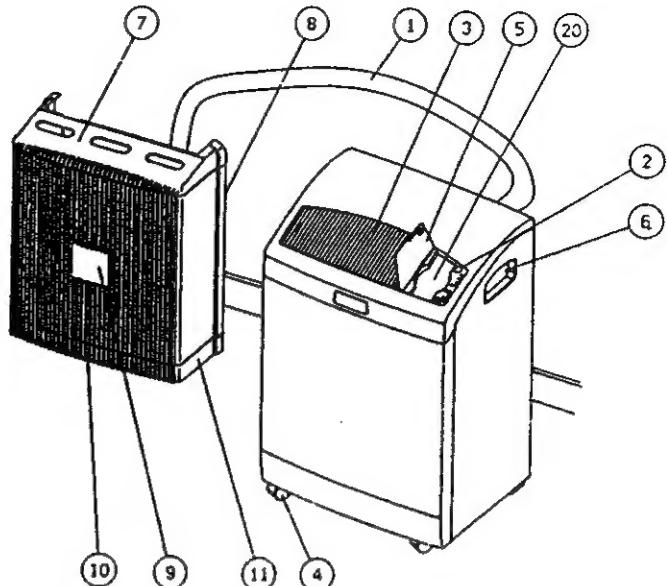
Cooling capacity (I)	W / Btu/hr	3100 / 10600
Power consumption	W	1300
Dehumidification	l/hr	1.6
Air delivery	m <sup>3</sup> /hr / CFM	370 / 220
Indoor fan speeds		3 + Auto
Connecting tube length	mm	1900
Electrical supply	V/Ph/Hz	220-240/1/50
Fuse rating	amp	15 (delayed action)
Dimensions, indoor unit (HxWxD)	mm	603x470x341
Dimensions, outdoor unit (HxWxD)	mm	490x440x188
Weight: indoor / outdoor unit	Kg	40 / 10

(I) Capacity based on test conditions of:  
Indoor: 27°C/80°F DB - 19°C/67°F WB  
Outdoor: 35°C/95°F DB - 24°C/72°F WB  
In accordance with: ISO / DIS 5151.2  
Actual cooling capacity might vary according to local environmental conditions.  
Optimal operation temperature:  
Indoor: 21-34°C/70-93°F.  
Outdoor: 20-42°C/68-108°F.

## DESCRIPTION

**Figure 1**

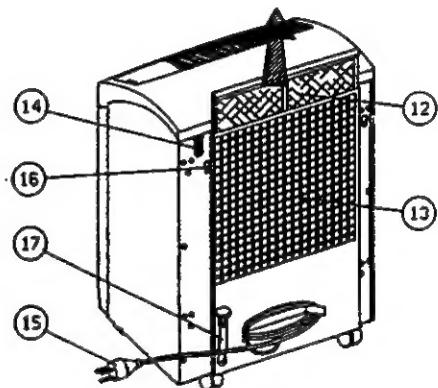
1. Interconnecting hose
2. Indicators and controls
3. Adjustable supply air grille
4. Castors
5. Service cover
6. Carrying handle - indoor unit
7. Carrying handle - outdoor unit
8. Attaching pins
9. Condenser fan grille
10. Condensate overflow outlet
11. Water basin
20. Remote control compartment



**Figure 1. Indoor & Outdoor Unit Component Description**

**Figure 2**

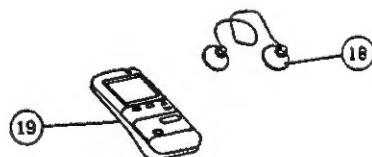
12. Air filter handle
13. Return air intake
14. Interconnecting hose
15. Power cord
16. Keyholes
17. Drain tube with plug



**Figure 2. Indoor Unit Component Description**

**Figure 3**

18. Remote control
19. suction pad



**Figure 3. Accessories**

## INSTALLATION

This mobile split air conditioner can be installed by the customer, as follows:

Choose an appropriate place for the air conditioner indoor unit near an exterior opening (window or door). A grounded 15-amps/220-V electrical outlet should be within 2.5 meters of the indoor unit.

Determine whether the outdoor unit is to be suspended from the window or the wall, or placed on the floor near a doorway. Be sure the outdoor unit is stable and well supported at its place of installation (see Figure 4).

The outdoor unit must be installed with the rear grille facing the wall at a minimum distance of 100 mm.

Be sure the outdoor unit is set so that its handle and hose are on top. To assure proper condensate drainage, make sure the unit is installed in a leveled position.

In high humidity conditions, the outdoor unit condensate basin (6) may overflow. If condensate leak occurs, it is recommended to use a permanent drain tube. Remove plug (7 see Figure 4), located under the unit, and fit instead a 13-mm OD hose (8), routed to a drainage point.

1. Indoor unit
2. Window
3. Outdoor unit, wall mounted
4. Outdoor unit, floor mounted
5. Interconnecting hose
6. Condensate basin
7. Plug
8. Drain tube

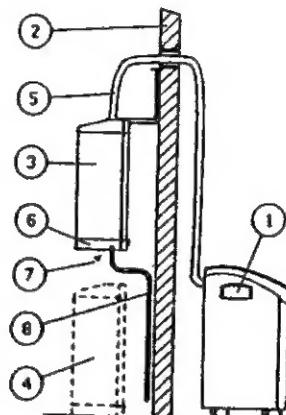


Figure 4. Installation

### INSTALLATION OF OUTDOOR UNIT

A standard kit (Figure 7), supplied with the air conditioner for supporting the outdoor unit, makes it possible to mount it either from a window sill (Figure 5) or on the wall (Figure 6).

1. Slip the unit handle over the sliding bracket (2)(Figure 7) of the unit support (see Figures 5 and 6).
2. For window mounting, refer to figure 5. Place the fixed support (3) (Figure 7) on the window frame, drill three holes in the window frame and mount the support securely with three screws.
3. Place the sliding bracket (2) so that its slots (4) fit into the matching studs (6) in the fixed support (3). Secure sliding bracket with wing nuts (5) (Figure 7). Suspend the outdoor unit on the sliding bracket.
4. Slide the unit to the most suitable place (minimum 100 mm from wall) and tighten the two wing nuts (5) (Figure 7).
5. Place the securing bracket (7) (Figure 7) in place and tighten it. Verify that the unit is well supported, stable and secured.

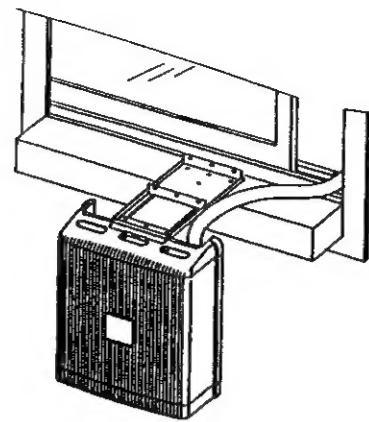


Figure 5. Suspending outdoor unit from window sill

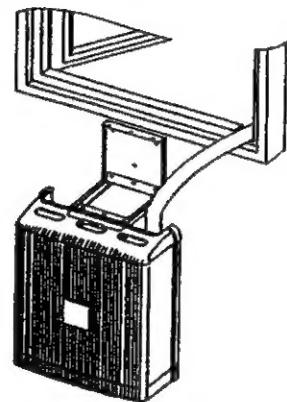


Figure 6. Suspending outdoor unit from wall

- 2. Sliding bracket
- 3. Fixed support
- 4. Slots
- 5. Wing nuts
- 6. Studs
- 7. Securing bracket

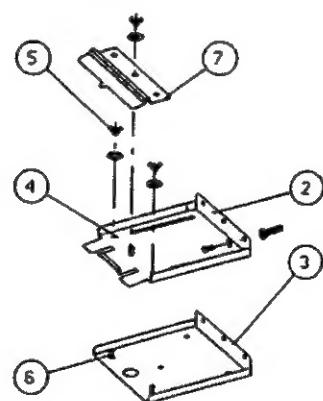


Figure 7. Outdoor unit supporting kit

6. For wall mounting, refer to Figure 6. Place fixed bracket (3) against wall, drill three holes in the wall and fasten with three screws; verify that the support is level.
7. Engage the sliding bracket with the two holes over the two studs and tighten the wing nuts (5). Install the securing bracket (7). Verify that the unit is well supported and stable.
8. Prepare a slot in the lower part of door or window frame for the interconnecting hose location (see Figures 8, 9, 10, 11).

Pass the interconnecting hose which contains the refrigerant tubing, cable and drain tube through a window or door opening. Be sure not to subject the interconnecting hose to any over-stress, avoid sharp bends or forced twisting. Before operation, close the window or door; use the suction pads if needed.

**NOTE:** If the air conditioner is to be used periodically in alternate rooms, it is recommended to cover the opening in the door or window. Additional mounting kits are available from your local dealer.

When transporting the unit, make sure to keep it in vertical position (discharge grille on top). Also, when removing outdoor unit, empty the water accumulated at the bottom by tilting to one side.

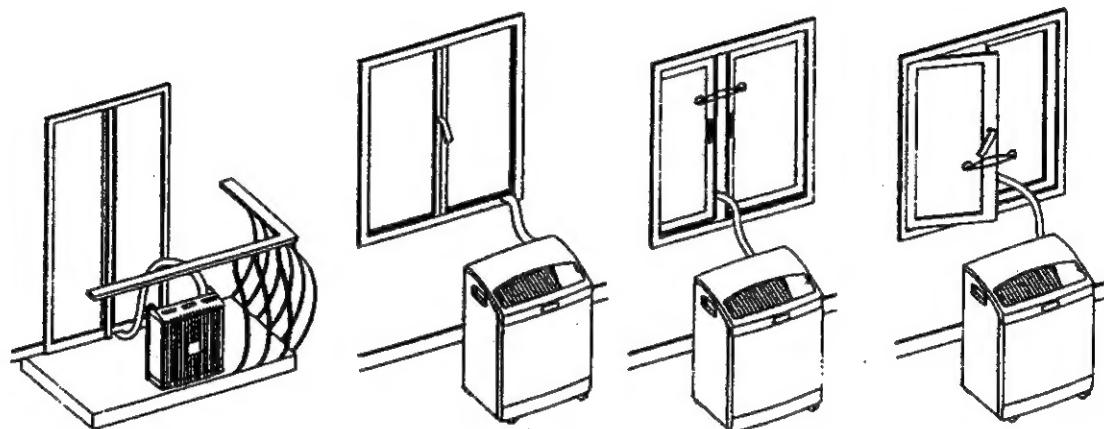


Figure 8

Figure 9

Figure 10

Figure 11

## ELECTRICAL CONNECTION

Before plugging in, please check that:

1. Socket and mains correspond to data given in specifications.
2. Plug fits the socket; if not, change socket.
3. Socket is properly grounded. The manufacturer is not responsible for any damage incurred due to failure of following normal safety procedures.

## OPERATION

In order to obtain maximum comfort and economy, please make sure that:

- Doors and windows of room to be conditioned are closed.
- Air outlet and inlet openings on the unit are free of any obstruction.
- Shade the room from direct sun rays and avoid excessive heat sources in the room.

### MODES OF OPERATION, FUNCTIONS AND FEATURES



#### COOL

Cools, dehumidifies and filters the room air. Maintains desired room temperature.



#### DRY

Dehumidifies and softly cools the room. In DRY Mode, the air conditioner operates at an increased dehumidifying power. This function is recommended for use when temperature is rather low but the humidity is high.



#### FAN

Recirculates and filters the room air. Maintains constant air movement in the room.

#### AUTO FAN

The air conditioner automatically selects the FAN speed in accordance with the room temperature. At the start, the unit operates at high fan speed. As the room air approaches the desired temperature, the fan switches to a lower speed, for quieter operation.



#### I FEEL

Switches the temperature sensing point to the place where the remote control is located (generally the temperature sensor is located behind the intake grille of the air conditioner). This function is designed to provide a personalized environment by transmitting the temperature control command from the location next to you. The communication between the Remote Control and the unit is done via infra-red signal. Therefore, in using this function, the Remote Control should always be aimed, without obstructions, at the air conditioner.



#### TIMER

Real time control and display, automatically turns the air conditioner ON and OFF according to the time of day setting, ensuring comfort conditions before returning home, without wasting electricity; it turns off the air conditioner automatically when sleeping.



## SLEEP

Designed to create comfortable sleeping conditions. When in COOLING mode, the temperature rises one degree centigrade above the set point after each consecutive hour, up to three hours, from the start of the mode. The temperature rise prevents the feeling of over-cooling while sleeping (when your body is at rest). When in SLEEP mode, the air conditioner will be automatically turned off after seven hours. The result is a more comfortable and invigorating sleep, which leaves you feeling fresh and energetic in the morning.



## ROOM TEMPERATURE

Measures and displays room temperature.



## FILTER INDICATION

Filter indicator on the indoor unit display is turned on when the filter requires cleaning. After cleaning and reinstalling the filter, the system should be reset.



## BUZZER INDICATOR

A soft buzzer will sound at the indoor unit display to indicate that a command sent by the remote control has been accepted and stored in the unit's memory.

This feature may be easily canceled by the user from the display panel.

## ON-UNIT OPERATION

The air conditioner can be turned on or off directly from the indoor unit display panel without the use of the remote control.

## 3-MIN. DELAYED RUN

The compressor is protected by a three-minute delayed restart.

## MEMORY

The microprocessor retains the last data entry, whether or not the unit is plugged in. Therefore, when the unit restarts after a power disruption or failure, it will resume operation in the same mode as before the power disruption.

## LOCK

Freezes the last operation setting on the remote control. When LOCK is activated, the remote control will be unable to control the air conditioner.

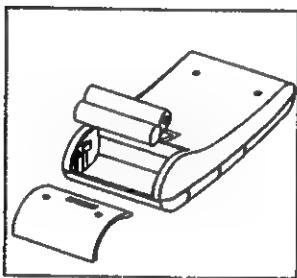
## USE OF WIRELESS REMOTE CONTROL

### PRIOR TO OPERATION

(Refer to Figure 12)

Prior to operating your air conditioner, make sure that:

- The indoor unit is properly connected to the power supply
- Indicator (A) on the unit's display is lit, meaning that the air conditioner is ready to accept your remote control commands.
- The red tab protecting the remote control battery has been removed.
- For clock setting see page 15.



### REMOTE CONTROL COMPARTMENT

Use the remote control compartment when unit is not in use. Remote control can be flipped in or out of its compartment.

- Aim at the infrared signal receiver at the room air conditioner when operating.
- The remote control signal can be received at a distance of up to 8 m.
- Be sure that no obstructions exist between the remote control and the signal receptor.
- Do not drop or throw the remote control unit.
- Do not place the remote control unit in a location exposed to direct sunlight, or next to a heating unit, or any other heat source.
- Do not expose the air conditioner signal receiver (H) to a strong light such as fluorescent lamp or sunlight.

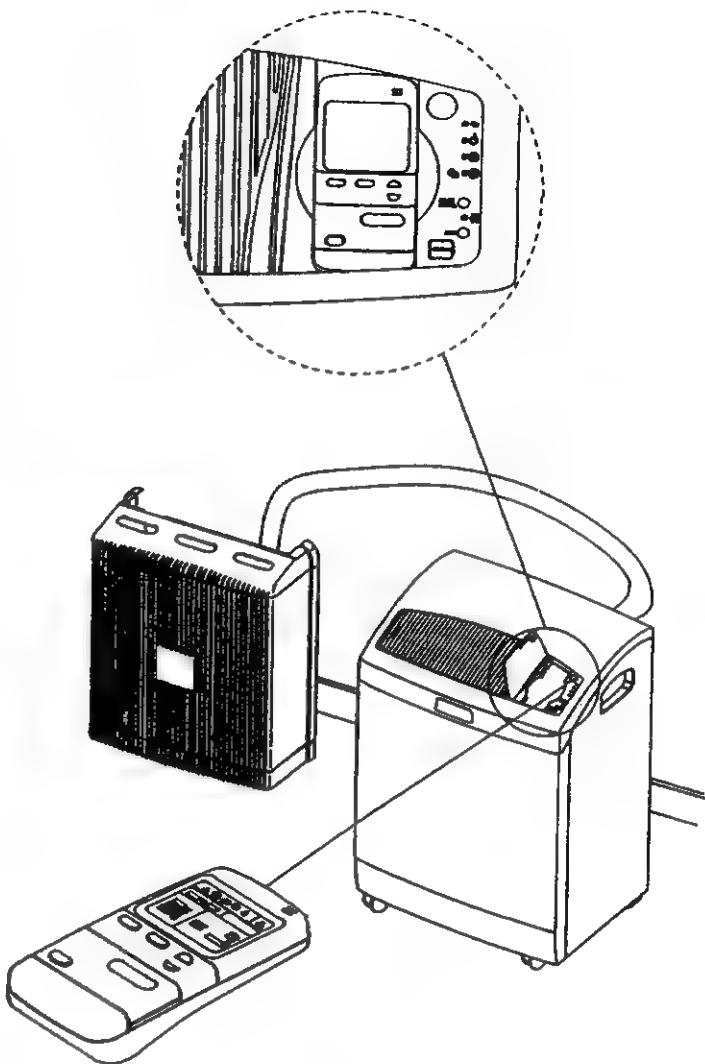


Figure 12. Remote Control Application

## ON-UNIT INDICATORS AND CONTROLS (Refer to Figure 13)

- A. STAND-BY INDICATOR  
Lights up when the air conditioner is connected to power and ready to receive the remote control commands.
- B. OPERATION INDICATOR  
Lights up during operation. Blinks to announce that the remote control infrared signal has been received and stored. Blinks continuously when compressor operates in its high-pressure protection mode.
- C. TIMER INDICATOR  
Lights up during Timer and Sleep operation.
- D. FILTER & WATER OVERFLOW INDICATOR  
Lights up when air filter requires cleaning. Blinks during water overflow.
- E. COOLING INDICATOR  
Lights up only when button (F) is pressed.
- F. COOL / ON / OFF - UNIT OPERATION BUTTON  
Used to switch the unit to positions: ON, OFF, and COOLING without the use of the remote control.
- G. RESET/CANCEL BUTTON  
Press to turn off the FILTER indicator and to reset the filter function, after the clean filter has been reinstalled.  
Press to cancel the buzzer announcer, if elected.
- H. SIGNAL RECEIVER  
Receives signals from the remote control.

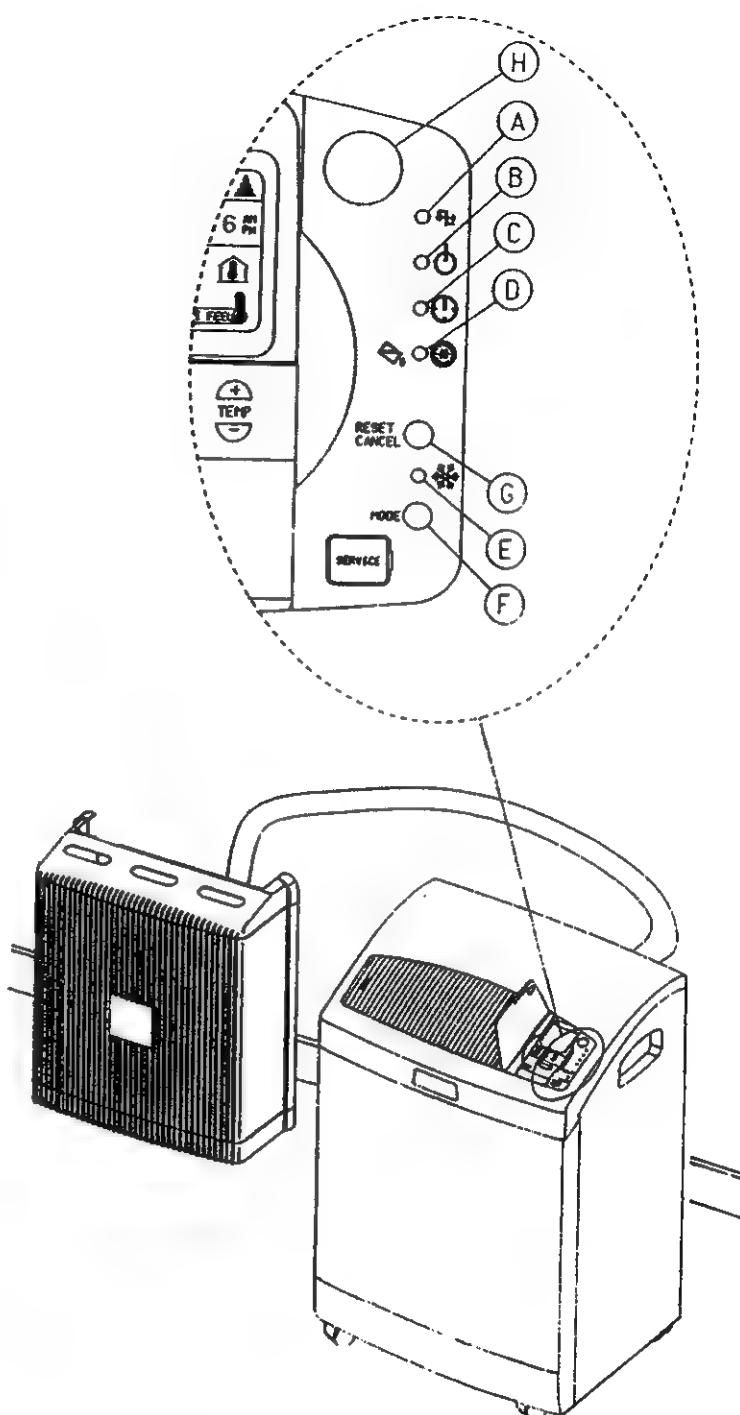


Figure 13. On-unit Indicators and Controls

**REMOTE CONTROL** (Refer to Figure 14)

- 1** START/STOP button
- 2** Operation mode selection button
- 3** FAN SPEED and AUTO FAN button
- 4** Temperature set UP button (+)
- 5** Temperature set DOWN button (-)
- 6** I FEEL temperature sensing button
- 7** SLEEP button
- 8** ROOM temperature button
- 9** TIMER select button
- 10** TIMER set up (+) button
- 11** TIMER set down (-) button
- 12** TIMER SET button
- 13** TIMER CLEAR button
- 14** LOCK button
- 15** LCD display
- 16** I FEEL sensor
- 17** Infrared signal transmitter
- 18** Transmission sign

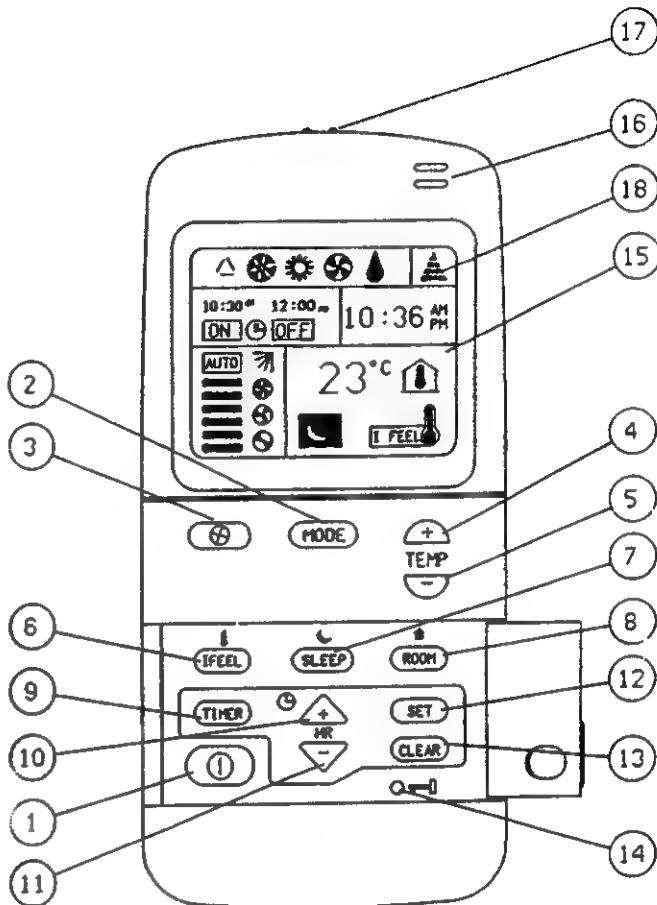
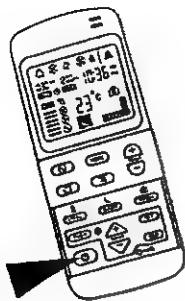


Figure 14. Remote Control Unit

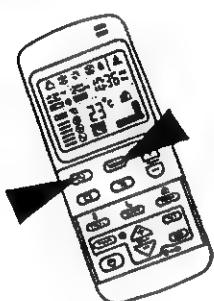
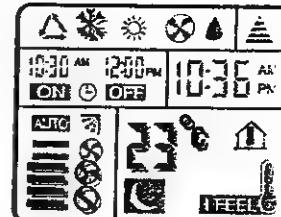
## OPERATION PROCEDURE (Refer to Figure 13 & 14)



### TURNING ON THE AIR CONDITIONER

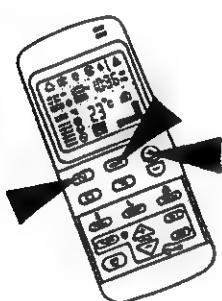
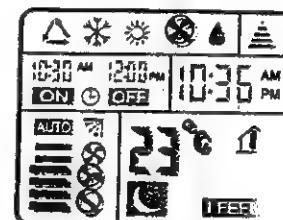
Press START/STOP button (1) to turn the air conditioner on. Indicator (B) on the air conditioner will light up, indicating that the unit is in operation.

Note that the LCD operation display (15) will always show the last mode of operation and the previous function used.



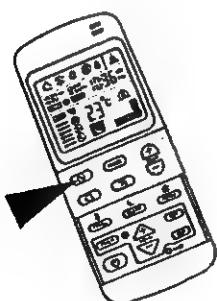
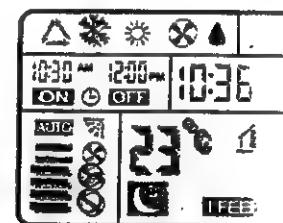
### VENTILATING OPERATION

Select the FAN mode by pressing MODE button (2). Switch to the desired fan speed by pressing FAN speed button (3).



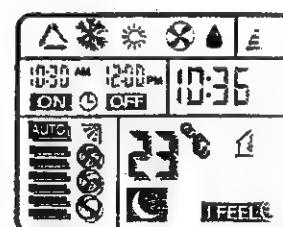
### COOLING OPERATION

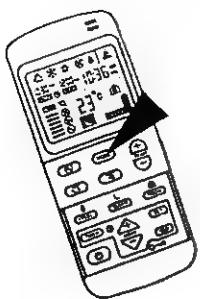
Select the COOLING mode by pressing MODE button (2). Switch to the desired fan speed or to AUTO fan by pressing button (3). Select suitable temperature setting.



### COOLING OPERATION WITH AUTO FAN MODE

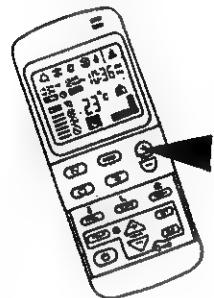
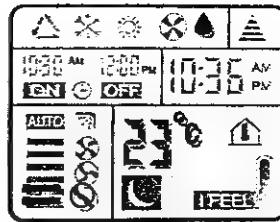
This operation starts with the highest air flow in order to quickly lower the room temperature. It will then automatically switch to the low air flow to quietly maintain the selected temperature.





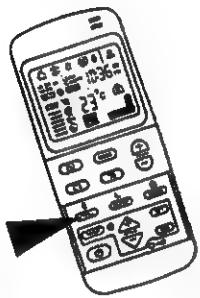
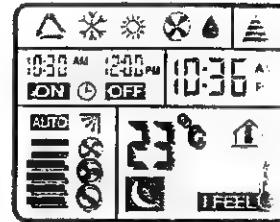
#### DRY OPERATION

Select the DRY mode by pressing MODE button (2). Select the suitable temperature setting. While in DRY mode, the air conditioner will operate at low fan speed, regardless of the fan setting on the LCD operation display. The fan might stop operating from time to time to prevent over-cooling.



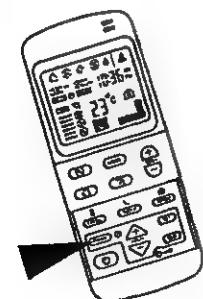
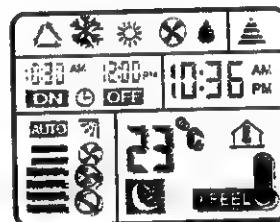
#### SELECTING THE TEMPERATURE

Press temperature button (4) or (5) to change the temperature setting on the LCD operation display (15). The temperature setting is shown in degrees centigrade. A higher number indicates a higher room temperature; a lower number indicates a lower room temperature.



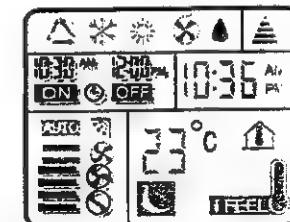
#### I FEEL FUNCTION

Press I FEEL button (6) to activate the I FEEL function. Thermometer sign and temperature set-up will appear on the LCD operation display (15). Select suitable temperature setting. Make sure that the remote control unit is aimed at the air conditioner, with the I FEEL sensor (16) in front. Prevent the I FEEL sensor from being affected by heat sources such as lamps, heaters, direct sun, etc., or from being directly affected by the air conditioner air flow. These may cause the sensor to transmit the wrong temperature data, thereby disturbing of the I FEEL function.



#### TIMER OPERATION

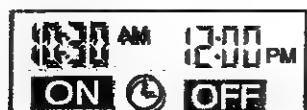
Press TIMER select button (9) to activate the timer operation mode. Each time the TIMER button (9) is pressed, one of the following four types of operation modes will appear on the LCD display. The operation modes are sequenced in the direction of arrow. Indicator (C) on the air conditioner will light up during TIMER operation.



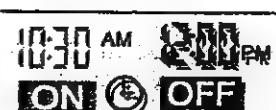
NOTE: After power failure (when the unit is in TIMER mode) the unit will be turned automatically to STAND BY mode and the timer operation will be cancelled. To resume the timer operation follow the instructions above.

## TIMER OPERATING MODES

### I. TIMER ON



### II. TIMER OFF



### IV. CLEAR

### III. TIMER ON AND OFF

#### I. TIMER ON

This mode enables you to set a starting operating time. Press the TIMER button (9) till the ON sign blinks. Starting time can be adjusted using the up and down buttons (10) and (11), respectively. Press SET button (12) to activate the timer.

Example: Operation is restored at 10:30 AM.

#### II. TIMER OFF

This mode enables you to set the time at which timer stops  
Press the timer button (9) twice, the OFF sign will blink. Time can be adjusted using the up and down buttons (10) and (11), respectively. Press SET button (12) to activate the timer.

Example : Operation stops at 12:00 PM.

#### III. TIMER ON AND OFF

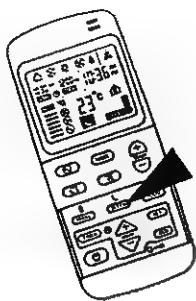
This mode enables you to set the start and stop time of operation. Press the TIMER button (9) till the OFF sign blinks, by pressing again the ON sign will blink. Time can be adjusted by using the up and down buttons (10) and (11), respectively. Press SET button (12) to activate the timer.

Example: Operation is restored at 10:30 AM and stops at 12:00 PM.

#### IV. CLEAR

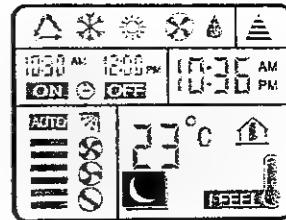
Use this mode to cancel timer operation. Press CLEAR button (13), timer operation will terminate and the LCD display will be cleared for each timer mode. When CLEAR button is pressed timer indicator (C) will turn OFF.

**NOTE:** If timer button (9) is selected and neither time adjust, SET, or CLEAR buttons are pressed within 15 seconds, the timer operation will be canceled and the last set-up will be displayed.



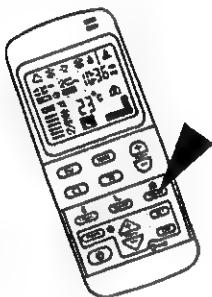
### SLEEP FUNCTION

Press SLEEP button (7) to select the SLEEP function. When the sleep function is activated the air conditioner will be automatically turned OFF after seven hours. If at the same time TIMER OFF is activated, as well, the air conditioner will be turned OFF according to the TIMER setting.



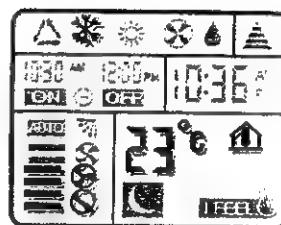
To cancel the SLEEP function press one of the following :

- START/STOP button (1)
- SLEEP button (7)



### ROOM TEMPERATURE DISPLAY

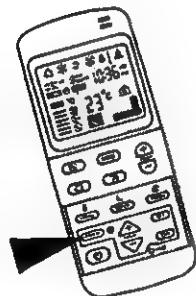
By pressing the ROOM temperature button (8), the measured room temperature and the room temperature sign will be displayed for 5 seconds. For permanent display of the room temperature, hold ROOM Temperature button (8) for at least 4 seconds before releasing it.



To cancel the Room Temperature display, press one of the following:

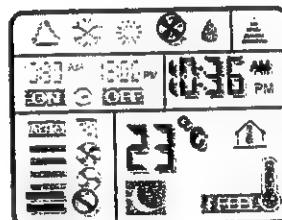
- Another pressing on room temperature button (8).
- Change of MODE button (2)

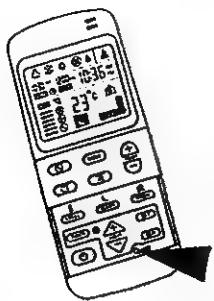
NOTE: Room temperature range is between 0°C and 36°C in 1°C increments. Display should show "HI" or "LOW" to represent temperature above 36°C or below 2°C.



### CURRENT CLOCK TIME SET

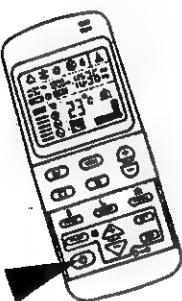
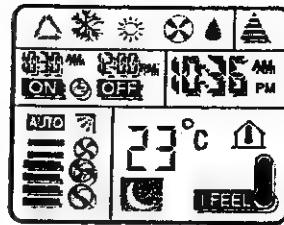
Clock setting is performed when batteries are inserted. The remote control displays the setting and the clock display will blink "00:00" or "12:00 AM" (AM sign will blink too) till a new time is set. For clock setting, use buttons (10) (11) for setting the hours and minutes, respectively, and then press timer SET button (12). The clock setting can also be performed by pressing timer SET button (12) and timer CLEAR button (13) for 5 seconds. The clock display will blink; for a new setting follow the steps described above.





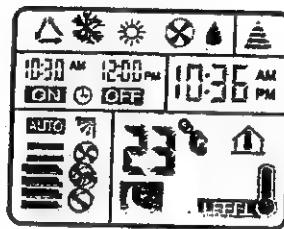
#### LOCK MODE FUNCTION

By pressing lock button (14) the remote control will lock the last operation setting. All function buttons will be inoperative including START/STOP button. By pressing lock button (14) again, the remote control will be released from its locked mode. When lock mode is functioning, the transmission sign (18) will be on.



#### TURNING OFF THE AIR CONDITIONER

Press START/STOP button (1) to turn OFF the air conditioner. Indicator (B) on the air conditioner will be turned off. Indicator (A) will stay lit, indicating that the air conditioner is in STAND-BY mode and ready to accept any new command from the remote control. The remote control LCD will display the clock time and room temperature. The last operating set-up will be kept for the next operation.



#### ON-UNIT OPERATION

If the remote control cannot be operated, the air conditioner can be turned on for cooling or completely turned off, by pressing MODE button (F) on the air conditioner. Indicator (E) will light up to indicate if the air conditioner operates in cooling.

## PRECAUTIONS

- This air conditioner has been manufactured for domestic environments and should not be used for any other purpose.
- Do not obstruct the air discharge and inlet of the air conditioner.
- If repair is needed, contact only the nearest authorized service center; do not consider unauthorized service.
- This air conditioner is to be used by adults only. Do not allow children to play with it.
- Always ground the unit.
- Make sure the unit is installed in a levelled position.
- Before cleaning or performing any maintenance operations, always disconnect the electric power supply plug from the socket.
- Do not place any strain on the power cord when moving the unit.
- The air conditioner should not be installed at a place having any combustible gases, oil or sulphur in the atmosphere, or near any possible sources of heat.
- Do not place hot or heavy objects on the air conditioner.
- Clean air filter periodically.
- The air conditioner should be transported in an upright position. After transporting, wait at least one hour before turning the unit on.
- Move the unit with caution over carpets and rugs.
- In case of damage to the power cord, it should be replaced or repaired only by an authorized technician.
- This unit conforms to EEC Directive of Electromagnetic compatibility (89/336/EEC)

## CARE AND MAINTENANCE

### **WARNING:**

Before performing any maintenance procedure, make sure to disconnect the air conditioner from the power supply.

### **CLEANING THE AIR FILTER (See Figure 2)**

The filter is located at the back of the indoor unit. Slide the filter up, pulling on the filter handle (12). Rinse the filter with tap water, dry it and re-install it in place. Clean at least once during the season, or as necessary.

**DO NOT OPERATE THE UNIT WITHOUT FILTERS!**

### **CLEANING OUTDOOR UNIT CONDENSATE BASIN (see Figure 15).**

Remove the water basin (2) by unscrewing the four screws (3) on each side of the basin. Clean the basin with water, dry and reinstall.

## CLEANING THE AIR CONDITIONER

- Wipe the unit with a soft dry cloth or clean it, using a vacuum cleaner.
- Do not use hot water or volatile materials which could damage the surface of the air conditioner.

## AT THE BEGINNING OF THE SEASON

- Make sure there are no obstacles blocking the flow of inlet or outlet air.
- Make sure the power supply is properly connected.

## PROTECT THE ELECTRONIC SYSTEM

- Indoor unit and remote control must be at least 1 meter away from a TV, radio or any other home electronic appliance.
- Protect the inner unit from direct sun or lighting.

## REMOTE CONTROL BATTERY CHANGE

- Remove the batteries from the remote control as shown in Figure 12
- Use two 1.5-Volt, size AAA batteries.

## MOVING AND STORING

Before carrying or storing, tilt the outdoor unit to empty it from any remaining condensate water. The indoor and outdoor units should be joined together (Figure 16) when moving or storing the air conditioner. To join the units, insert pins (8) of the outdoor unit into the keyholes (16) of the indoor unit (see Figures 1 and 2).

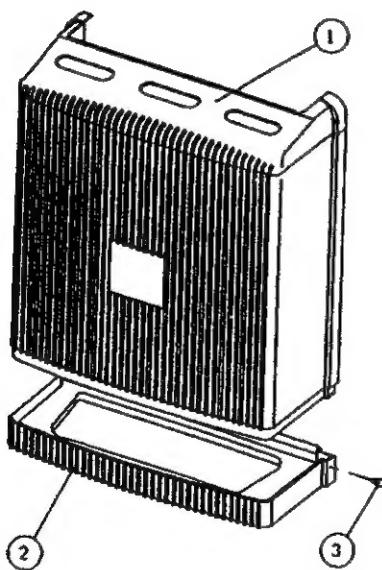


Figure 15. Removal of Condensate Basin

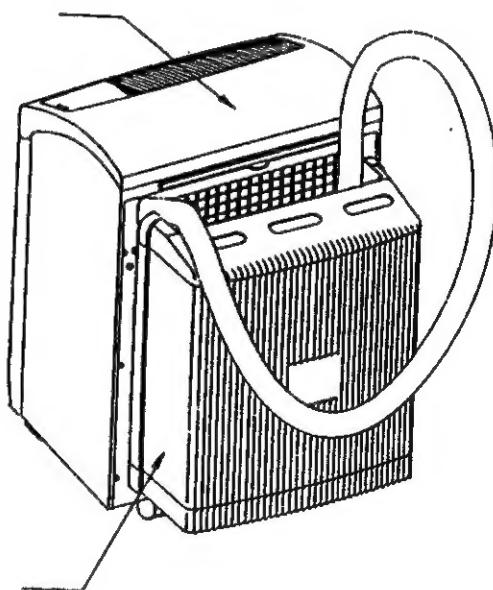


Figure 16. Units Joined for Moving and Storing

## BEFORE CALLING FOR SERVICE

Before calling for service, please check the following common malfunctions and correct as needed.

PROBLEM	CAUSE	REMEDY
– The unit does not operate; standby indicator does not light up.	– Power failure – Plug is disconnected	– Check main fuse – Insert plug
– Unit does not operate; stand-by indicator lights.	– Remote control malfunctions.	– Check remote control batteries. – Try to operate from a closer distance. – Start from on-unit controls. – Perform reset operation by pressing buttons (10),(11),(12),(13) for 5 seconds.
– Unit operates for only brief periods in cooling or dry mode.	– Improper temperature setting.	– Decrease temperature setting.
– Unit does not dehumidify; water overflow indicator blinks.	– Drainage tube is blocked – Water pan is full.	– Remove obstruction – Empty through drain tube. (Fig. 2-17)
– Unit functions but does not perform efficiently.	– Window is open. – Heat-source present in room. – Unit capacity insufficient for load or room size. – Improper temp. setting. – Air filter is blocked.	– Close window. – Remove source of heat. – Consult your dealer. – Adjust temp. setting – Clean filter.

PROBLEM	CAUSE	REMEDY
– Unit does not respond properly to remote control command.	– IR signal does not reach unit.  – Distance between remote control and unit is too big or aimed at from improper angle.  – IR receiver on unit is exposed to a strong light source.	– Check for obstruction between unit and remote control, clear if needed.  – Get closer to unit.
– Operating indicator blinks.	– Compressor operates at high pressure	– Dim lights, fluorescente specially.
– Filter indicator lights up.	– Air filter is contaminated.	– Clean filter, reinstall and reset indicator.
– Noise from the outdoor unit	– The outdoor condensate pump is operating without water.	– Regular operation of the air conditioner